OKADA et al. - 09/973,929

Attorney Docket: 007324-0283788

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A refrigerator in which a deodorizer is provided in a cold air circulation path for deodorizing an atmosphere in the refrigerator, the refrigerator further comprising a heat exchanger having a cold air inlet, the deodorizer comprising:

discharging means having a plurality of wire-shaped discharge electrodes disposed across the cold air circulation path and a flat counter electrode, the discharging means producing ozone and ultraviolet rays by means of high-voltage discharge, the counter electrode having a number of slits formed therethrough so that cold air for refrigeration flows through the slits, the slits being arranged so that the cold air flows therethrough across the counter electrode;

a photocatalyst module provided between the discharge electrodes and the counter electrode for decomposing an odor component and injurious matter contained in the atmosphere by means of photocatalyst; and

ozone decomposing means for decomposing the ozone produced by the discharging means, the ozone decomposing means being disposed at a downstream side of at least the discharging means and the photocatalyst module with respect to a direction in which the cold air flows and further in the cold air inlet of the heat exchanger.

2.-3. (Canceled)

- 4. (Original) A refrigerator according to claim 1, wherein two photocatalyst modules are disposed at upstream and downstream sides of the discharging means with respect to a direction in which the cold air flows, respectively.
- 5. (Original) A refrigerator according to claim 1, wherein the deodorizer includes a body and the photocatalyst module is attached to and detached from the body of the deodorizer.
- 6. (Previously presented) A refrigerator according to claim 5, wherein the photocatalyst module has a first side confronting the discharging means and a second side located opposite the first side, and the first and second sides of the photocatalyst module are exchangeable

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when the photocatalyst module is attached to the body of the deodorizer so that the second side is confronting the discharging means

- 7. (Original) A refrigerator according to claim 1, wherein the photocatalyst module includes a base made from a porous ceramic and a photocatalytic material fixed to a surface of the base.
- 8. (Original) A refrigerator according to claim 1, further comprising control means for controlling the deodorizer so that the discharging means discharges electricity when cold air is circulated in the refrigerator.
- 9. (Original) A refrigerator according to claim 1, wherein the deodorizer includes a fan for blowing against the discharging means and the photocatalyst module.
- 10. (Original) A refrigerator according to claim 1, wherein the deodorizer includes a body, and the discharging means includes two electrodes between which electric discharge is directly performed and is attached to and detached from the body of the deodorizer.
- 11. (Original) A refrigerator according to claim 1, wherein the discharging means includes a pair of electrodes across which a high voltage of a negative polarity is applied so that electric discharge is performed.
- 12. (Original) A refrigerator according to claim 1, further comprising voltage changing means for changing a discharge voltage of the discharging means.
- 13. (Original) A refrigerator according to claim 1, further comprising a door closing and opening an interior of the refrigerator and control means for controlling the deodorizer so that the discharging means interrupts electric discharge when the door is opened.
- 14. (Original) A refrigerator according to claim 1, wherein the discharging means includes a pair of electrodes and the photocatalyst module is disposed between the electrodes of the discharging means.

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15. (Original) A refrigerator according to claim 1, further comprising a refrigerator body, wherein the deodorizer is attached to and detached from the refrigerator body.

16. (Original) A refrigerator according to claim 15, wherein at least the discharging means of the deodorizer is powered by a battery.

17.-28. (Canceled)